

FIG. 1

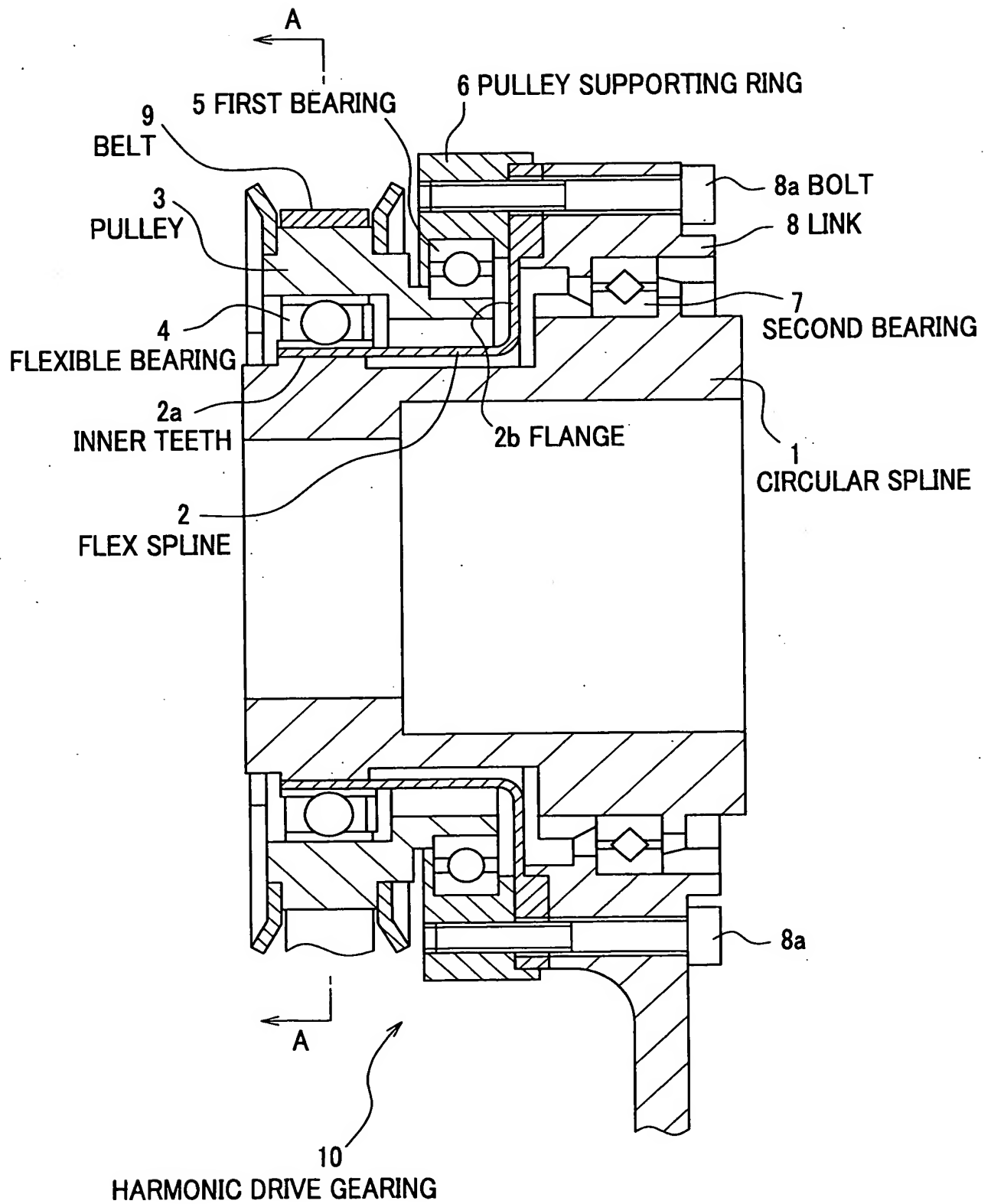
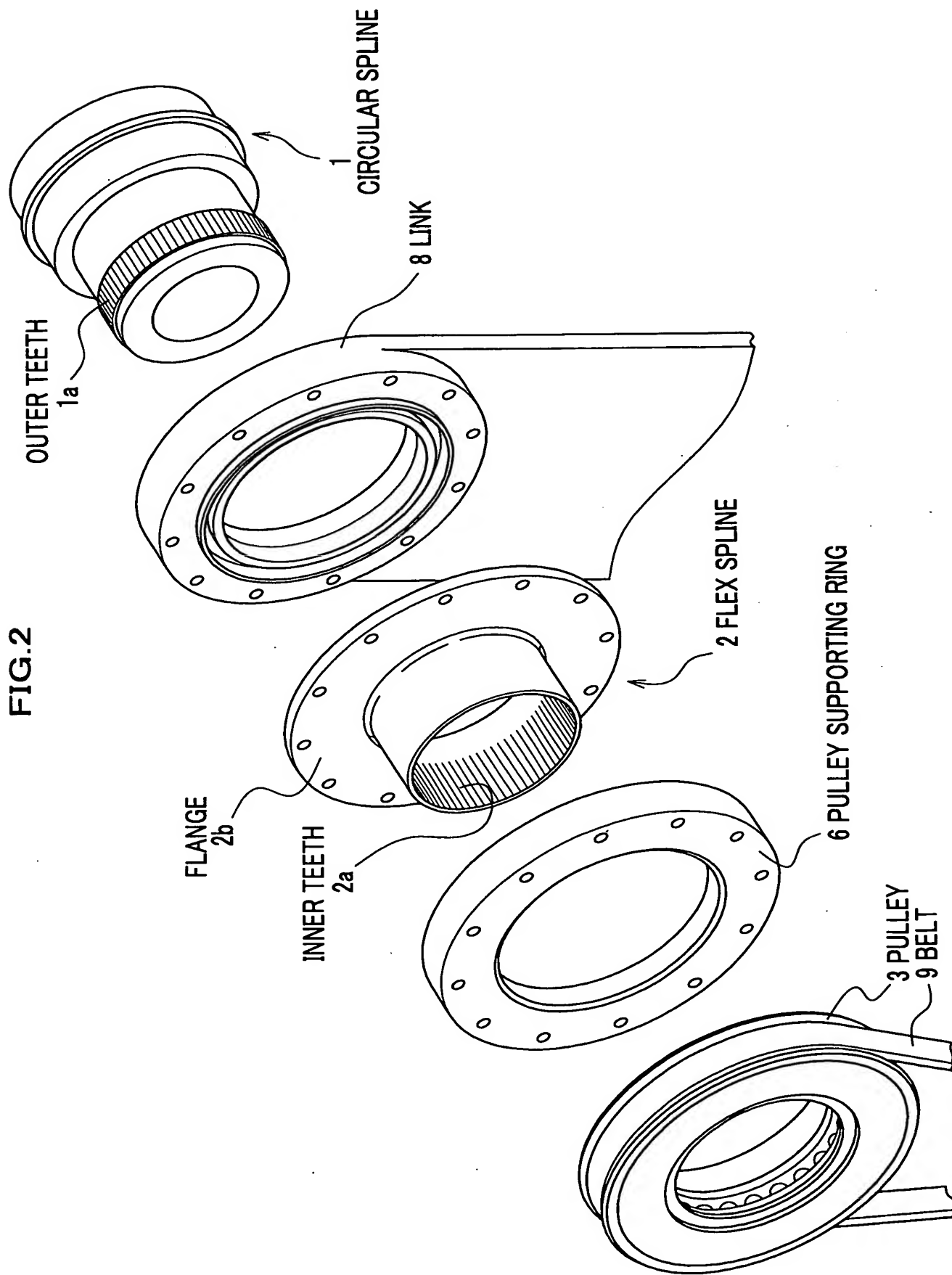


FIG.2



**FIG.3**

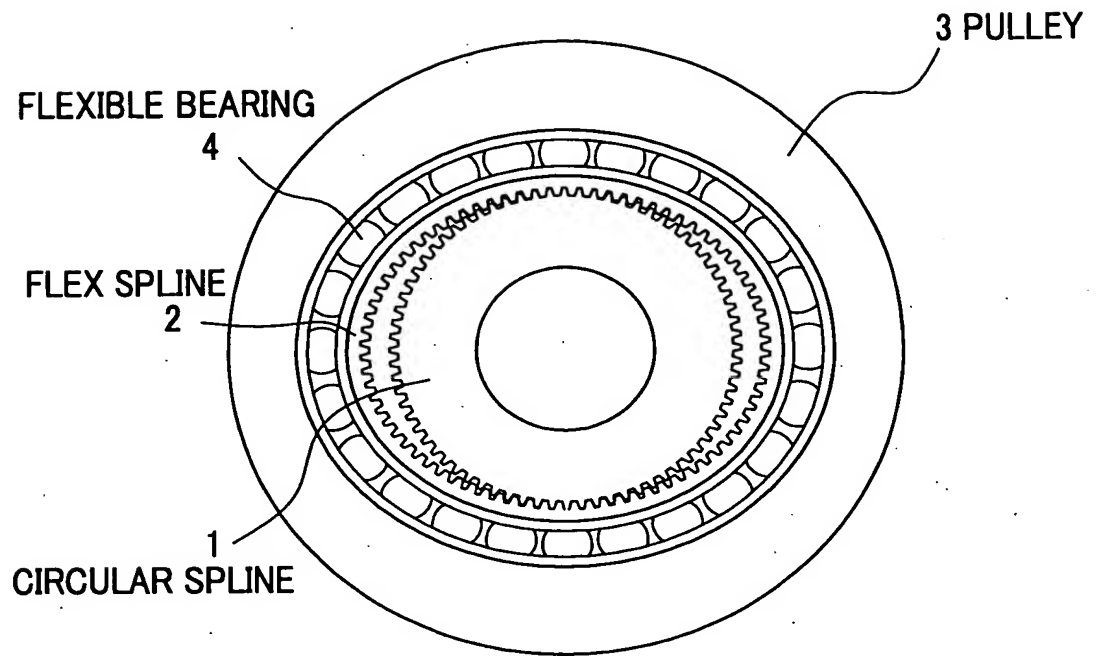


FIG.4C

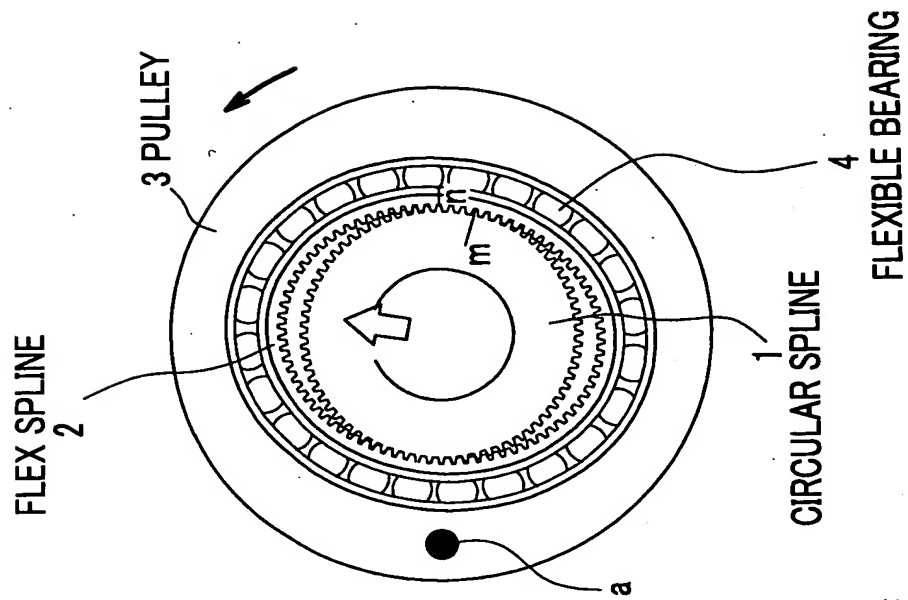


FIG.4B

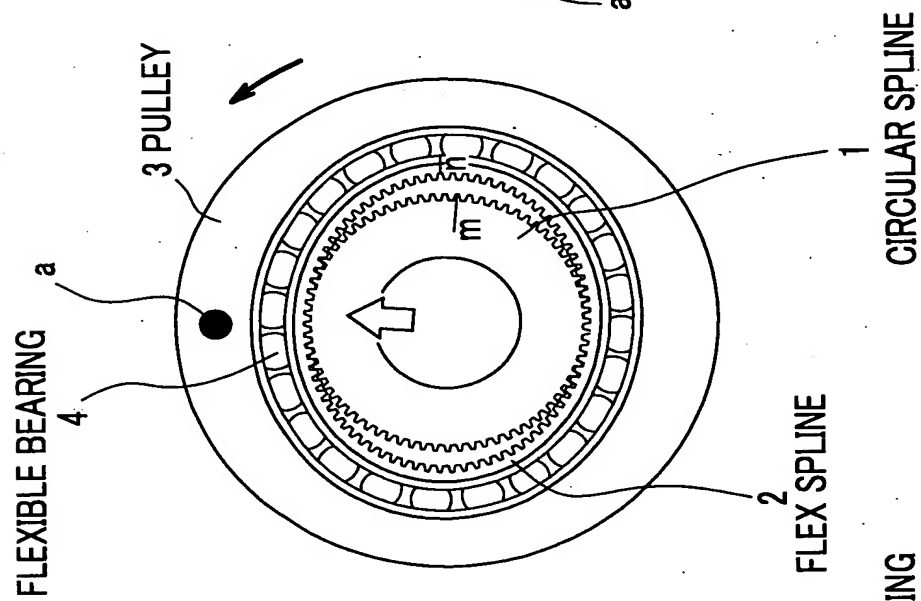


FIG.4A

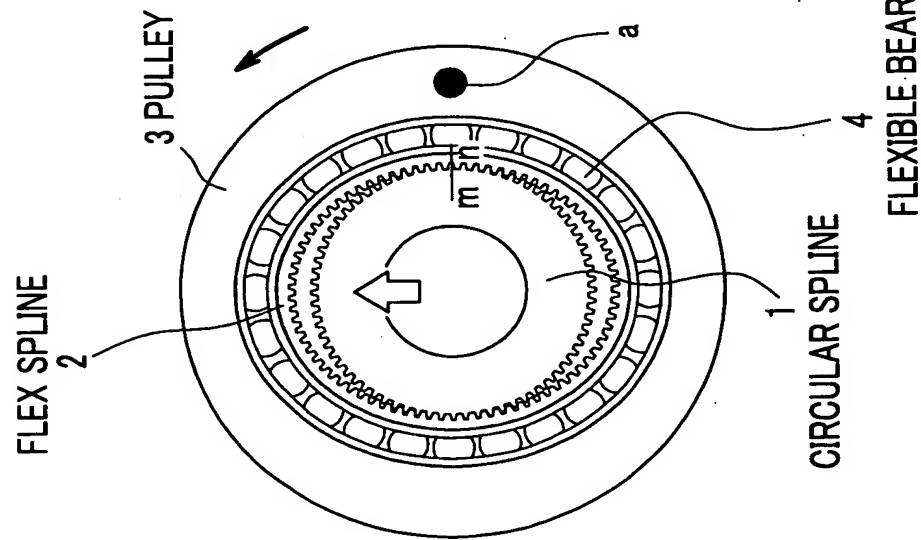


FIG.5

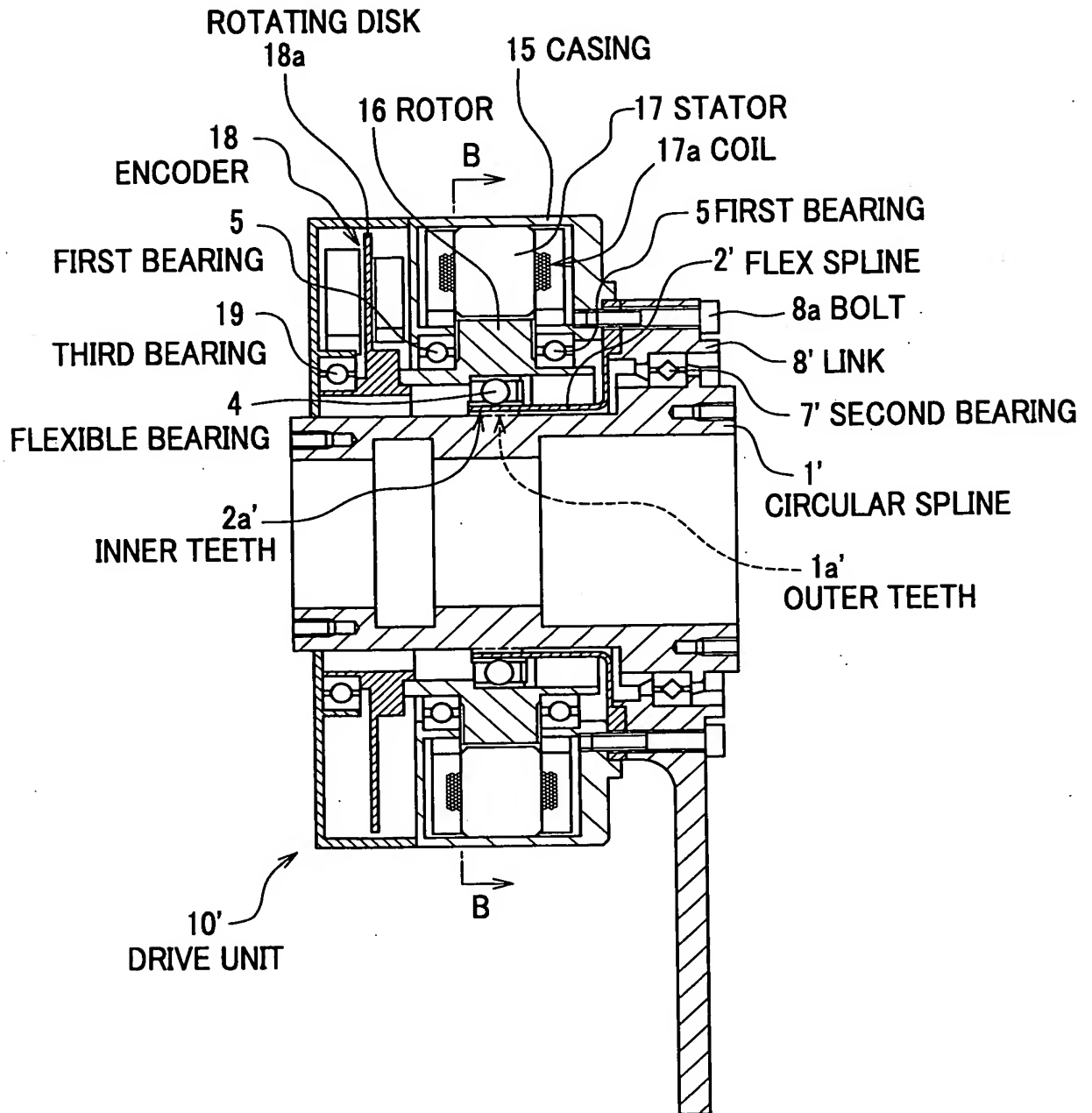


FIG.6

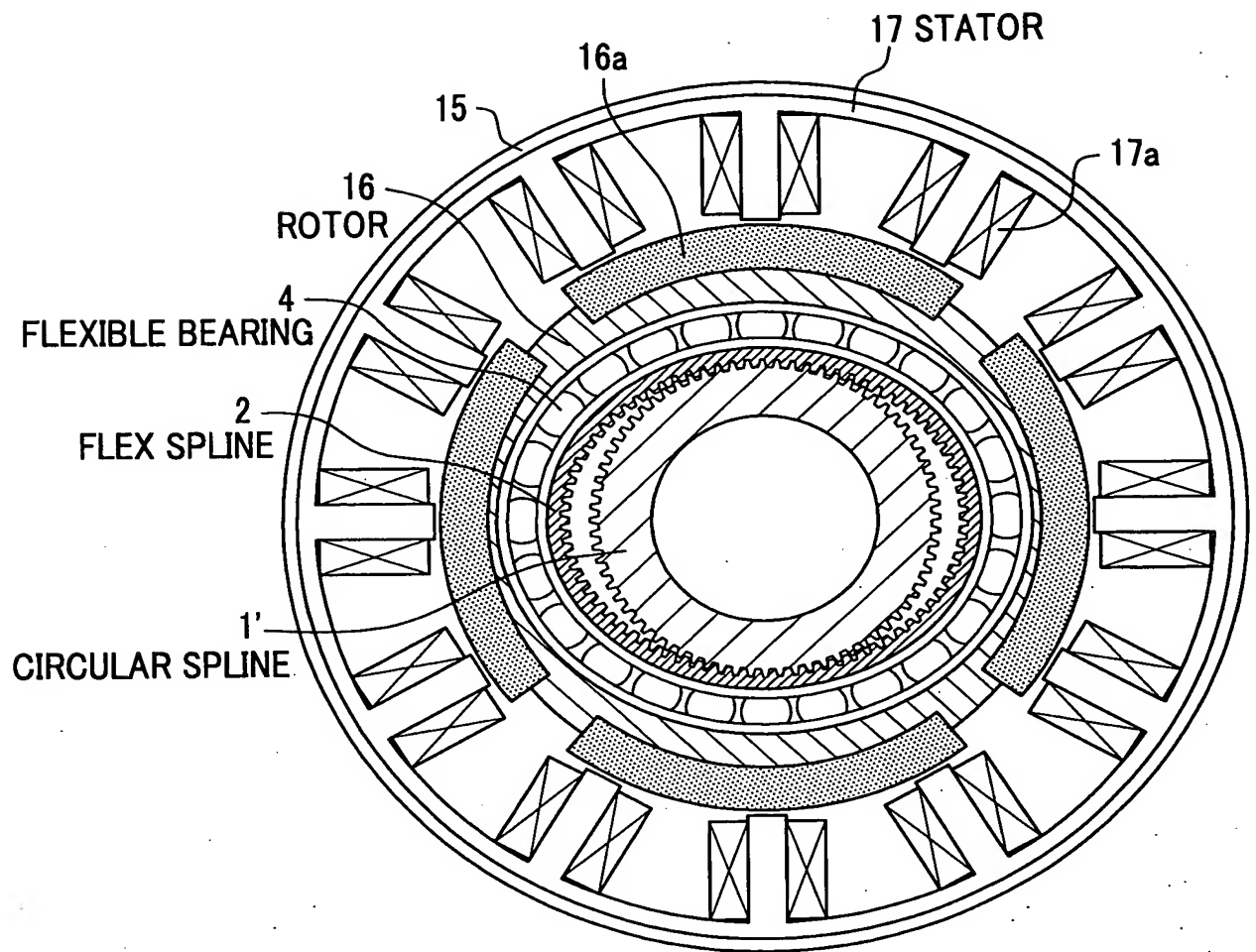


FIG. 7

CONVENTIONAL HARMONIC DRIVE GEARING

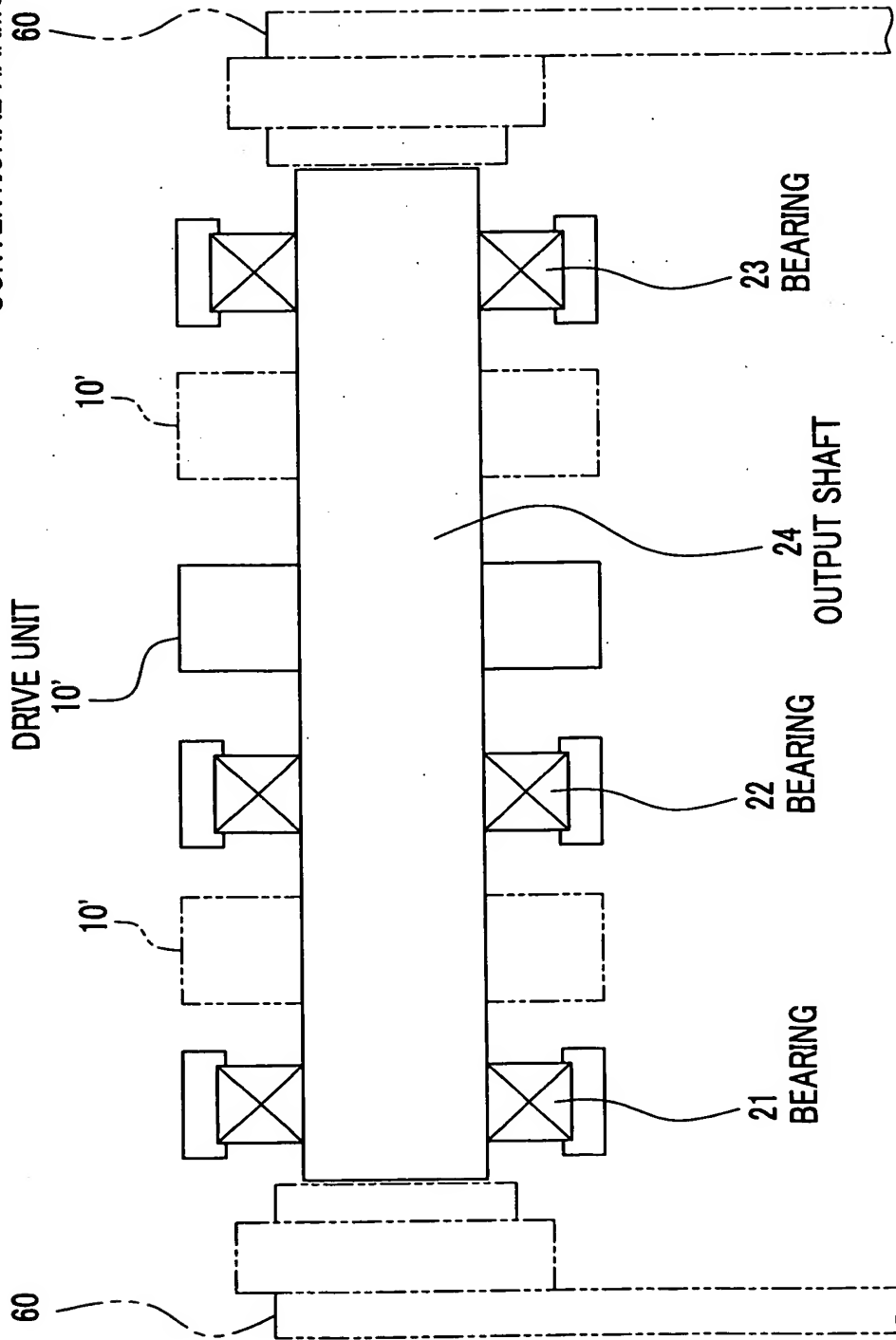
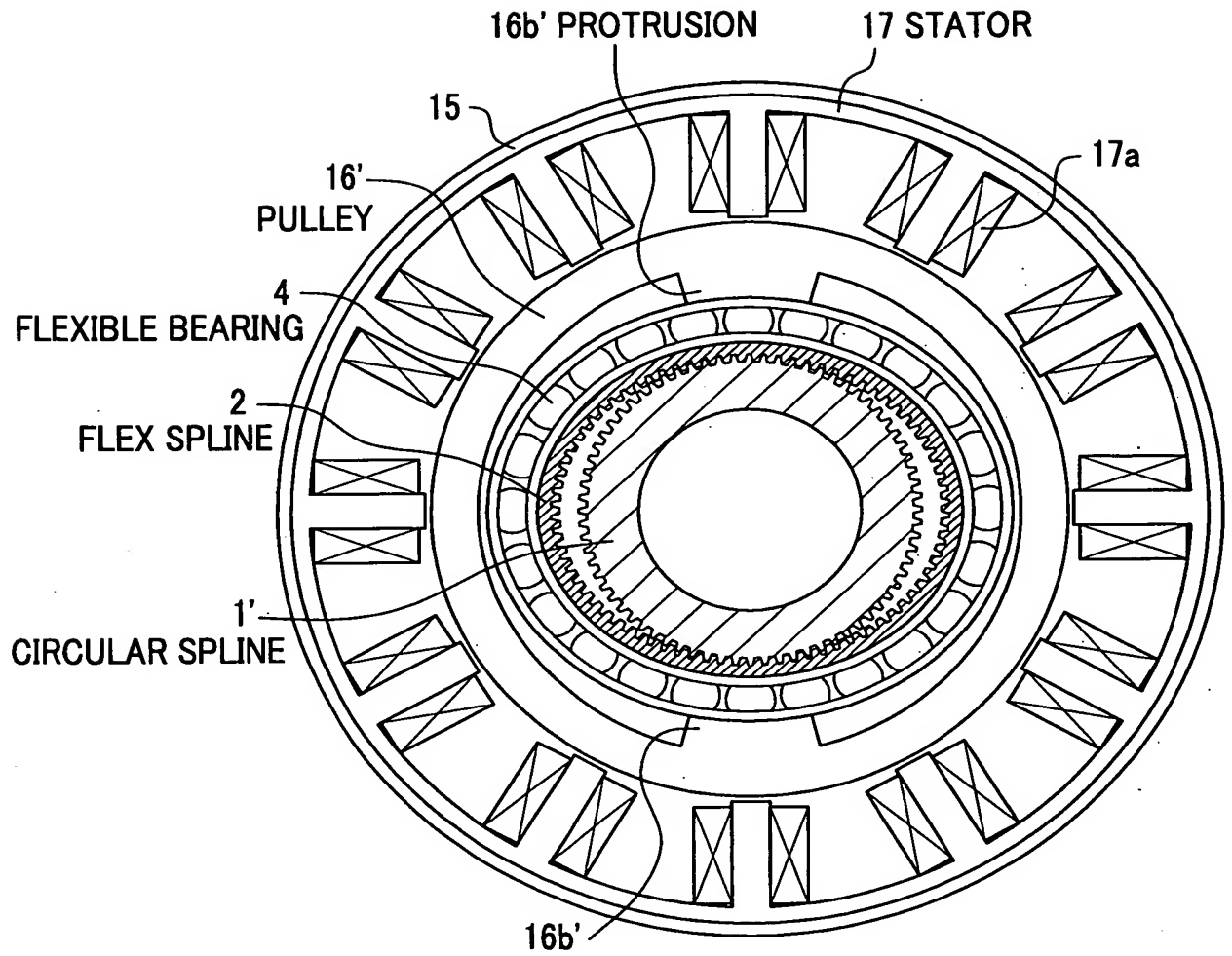


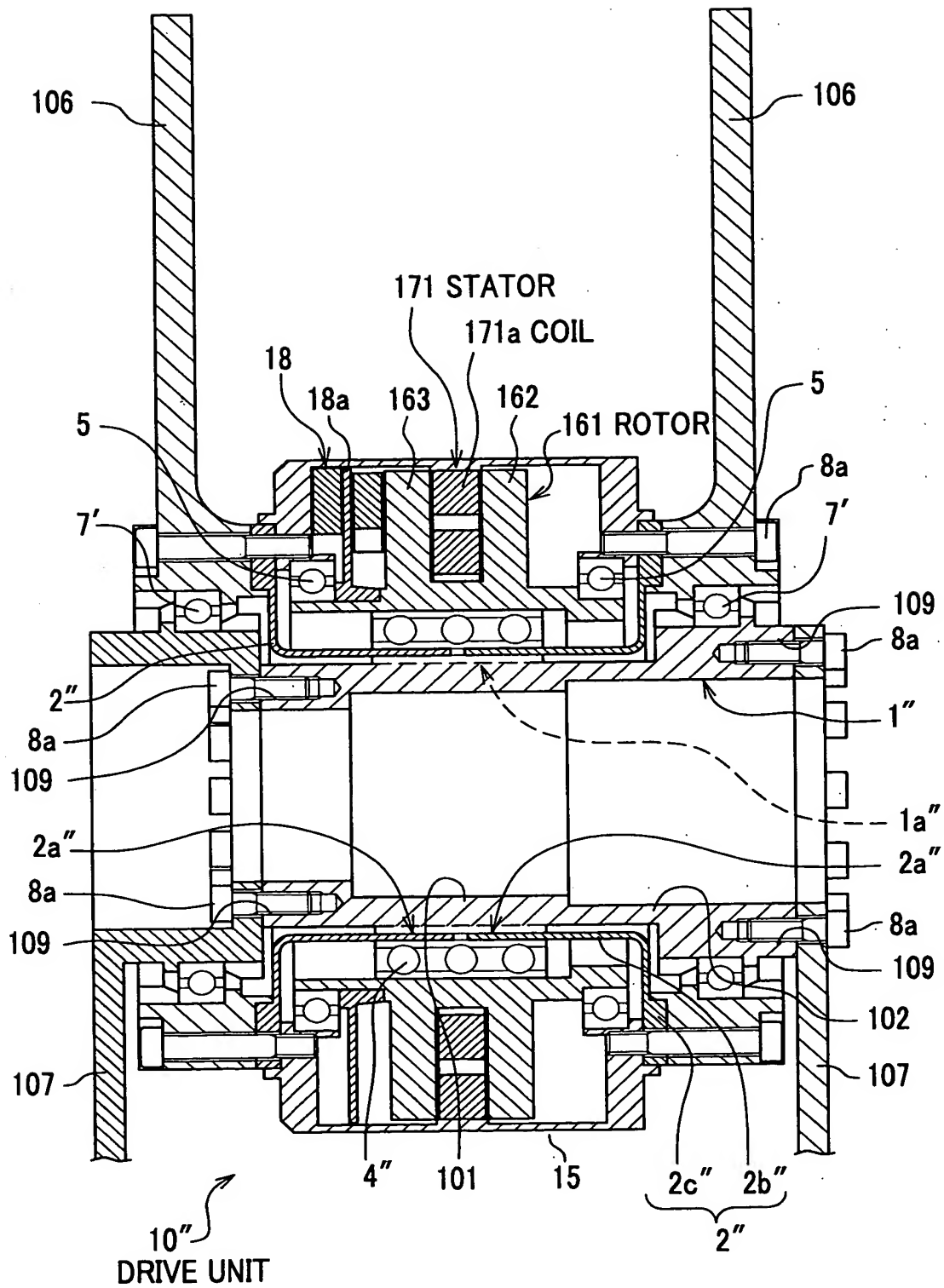
FIG.8





106  
 18 ENCODER  
 18a ROTATING DISK  
 17 STATOR  
 16" ROTOR  
 17a COIL  
 5  
 7'  
 5 FIRST BEARING  
 8a  
 7' SECOND BEARING  
 109  
 8a  
 2"  
 8a  
 109  
 2a"  
 8a  
 109  
 107  
 4"  
 101  
 15  
 2c"  
 2b"  
 2"  
 FLEX SPLINE  
 FLEXIBLE BEARING  
 CASING  
 107 FIRST LINK  
 102  
 109  
 8a  
 2a"  
 1a"  
 INNER TEETH  
 OUTER TEETH  
 1" CIRCULAR SPLINE  
 SECOND LINK  
 106  
 DRIVE UNIT

FIG. 10



12 SECOND LINK

12

18 18a 16 15 17

5 5' 2'

19

7' 4 8a 2a' 8a 1' 1a' 8a 7' 10' DRIVE UNIT 13 13 FIRST LINK

10'  
DRIVE UNIT

13 FIRST LINK

FIG.12

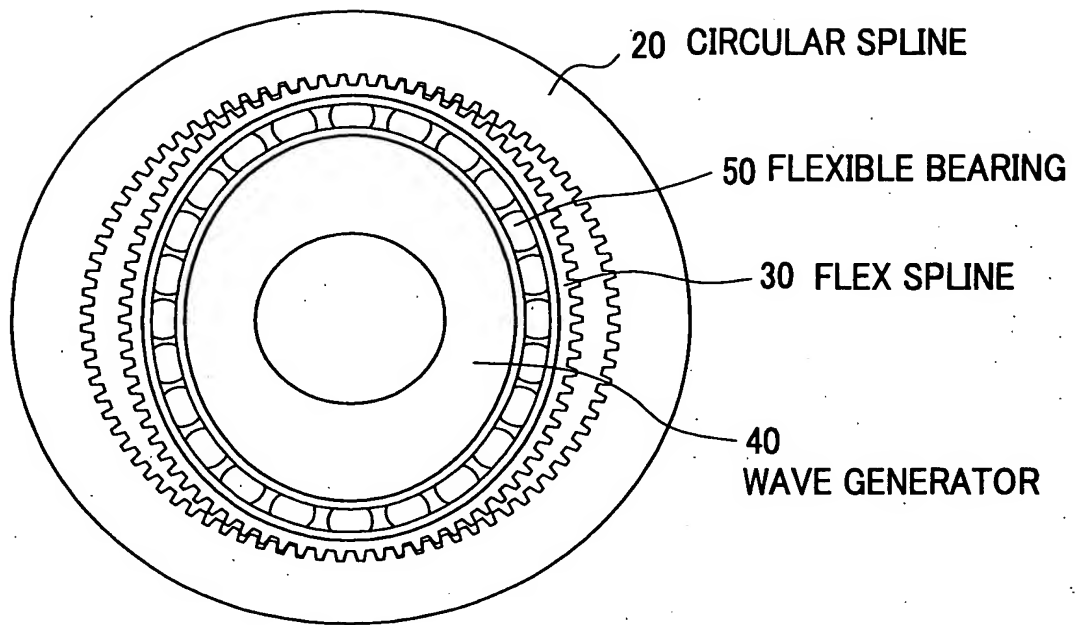


FIG.13

